

CleanSwitch

Contact-free switch for convenient activation of entrances with strict hygiene and design requirements

Hygienic, attractive, integrable

- Contact-free, hygienic door opening
- Attractive design with visual feedback
- Compatible with standard flush-mounted boxes



reddot design award
winner 2018

CleanSwitch

Contact-free switch for convenient activation

Hygienic in every application

Any place in which groups of people are found can be a breeding ground for germs and other pathogens. Contact surfaces – and in particular, door handles – are responsible for spreading vast amounts of bacteria and viruses, some of which can pose a real risk to health. This becomes critical when it affects healthcare facilities. Strict hygiene standards are also imposed in the catering industry, as well as other fields in which food is prepared.

CleanSwitch provides a contact-free, hygienic method of opening doors. It works by means of a deliberate hand gesture within the detection range of 10 to 50 centimetres – helping to stop germs in their tracks. Thanks to its attractive design featuring coloured LED feedback, CleanSwitch is an appealing, user-friendly addition to its environment. It takes just a few minutes to get the activation switch up and running and installation can be carried out in any standard flush-mounted box. The highly durable front can be treated using standard surface disinfectants in hospital areas. To ensure that it can be used without any problems in particularly moist or wet environments, CleanSwitch offers reliable protection that meets IP65.



Benefits for you

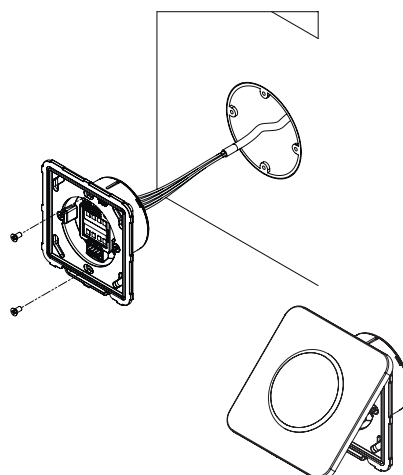
Hygiene

CleanSwitch has been specifically developed for use in buildings subject to strict hygiene requirements, such as healthcare facilities, sanitary areas, and the catering industry. It activates entrance points using a contact-free method – a deliberate gesture made by the user – and otherwise keeps doors closed. This helps to prevent the spread of germs. CleanSwitch can also be treated with any standard cleaning agent or disinfectant.



Easy installation

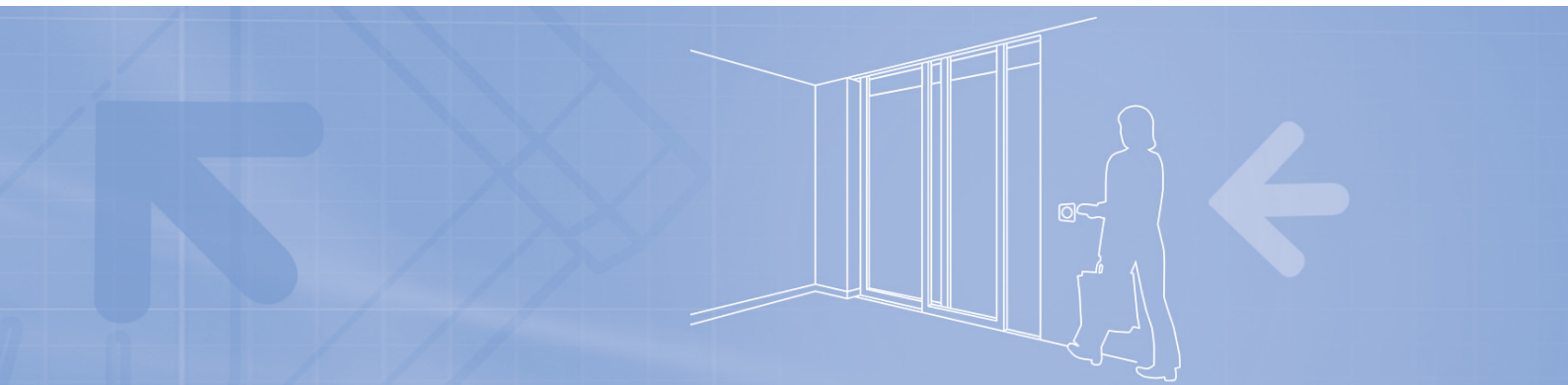
The intelligent way in which the system has been designed ensures it is compatible with all standard flush-mounted boxes. CleanSwitch is extremely quick and easy to install. Set-up of the device is an intuitive process that requires no tools, and the integrated short guide provides a helping hand.



Customising

CleanSwitch's visually appealing, straightforward design can be adapted in a whole range of ways to suit customers' preferences. It takes just a few seconds to change the colour, level of brightness and mode of the optical feedback, without tools. Not only that, but OPTEX also supplies a wide selection of pictograms that can be printed onto the front of the device to make it even more user-friendly. Customised pictograms and logos can also be applied on request.





Reliable in every application

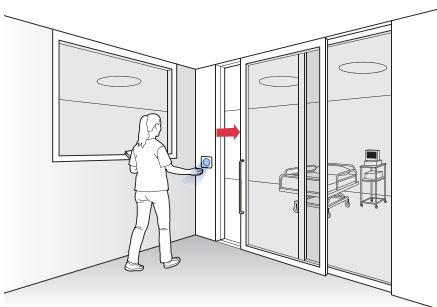
Situation

Hospitals, clinics, retirement homes

Solution

CleanSwitch provides a convenient, contact-free entrance activation method that does away with the need for contact with door handles, which are often contaminated.

CleanSwitch can be treated with any standard cleaning agent or disinfectant. The high-contrast LED feedback is easy to identify for people with impaired vision.

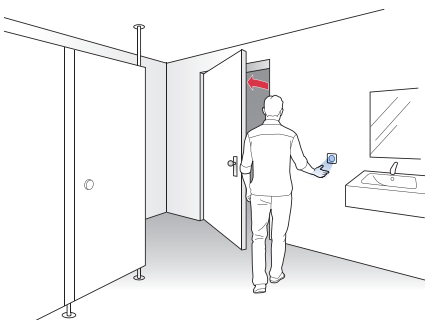


Situation

Public sanitary areas

Solution

CleanSwitch provides a contact-free method of opening automatic doors to public sanitary areas, and prevents the spread of bacteria and other pathogens.

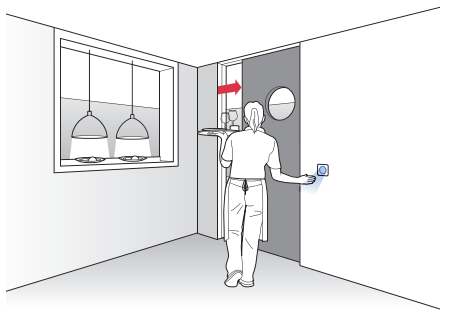


Situation

Catering industry

Solution

CleanSwitch activates the door by means of a gesture. This means that the entrance to the kitchen is only opened when required – providing service staff with a convenient, hygienic door-opening solution.



Technical data

Mechanical data

Material	ASA / PC
Dimensions	88 × 88 × 38mm (L × W × D)
Weight	55 g
Connection type	Plug terminals
Colour	White

Electrical data

Operating voltage	12~24 V AC ±10% (50~60 Hz) 12~24 V DC +20%/−10%
Frequency range	5~60 Hz
Power consumption	~ 1 W
Output	Potential-free relay with changeover contact
Max. switching voltage	(DC) 1 A to 30 V / 0.5 A to 60 V (AC) 1 A to 5 V
Max. switching capacity	30 W (DC) / 50 VA (AC)
Output fall-delay time	Relay fall-delay time 0.3 s LED fall-delay time 2 s

Technological data

Technology	Radar
Transmission frequency	24.125 GHz
Detection range	0.1~0.5 m
Detection mode	– Pulse mode: Detector is triggered by movement of hand – Toggle mode: first movement door open / second movement door closed
Detection speed	Min. 5 Hz or ± 3 cm/s Max. 200Hz or ±1.2 m/s

Ambient conditions

Protection class	IP65
Storage / operation temperature	−20° C to +60° C
Air humidity	< 95% rel., non-condensing

Electromagnetic compatibility standards

Directives	RoHS 2011/65/EU RED 2014/53/EU
Immision	EN 61000-6-2
Emission	EN 61000-6-3

Note

Technical details and recommendations concerning our products are based on experience and are an aid for the orientation of the user. Details stated in our brochures and data sheets do not guarantee special properties of the products. This does not apply to special product properties confirmed by us in writing or individually. Subject to technical alterations."

Configuration

CleanSwitch	/	wt	/	close1
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Device	Cover	Pictogram
CleanSwitch	wt = white	blank
CleanSwitch Basic	bk = black	close1
CleanSwitch Lock	no = no cover	...

Description

CleanSwitch With optical feedback						
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CleanSwitch Basic Without optical feedback		
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Pictograms

Printed on cover						
	blank	close1	open1	close2	open2	close3
						
	open3	close4	open4	handwave	hand	wheelchair
						
	lock					

CleanSwitch Coverless







Device without cover with optical feedback	
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CleanSwitch Basic Coverless




Device without cover	
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Components and accessories

Description

Covers						
Printed	blank	close1	open1	close2	open2	close3
White cover	368145	364980	364981	364982	364983	364984
Black cover	371142	371113	371114	371115	371116	371117

						
open3	close4	open4	hand wave	hand	wheelchair	lock
364985	364986	364987	419281	364988	364989	420507
371118	371127	371128	419284	371140	371141	420509

371199	CleanSwitch surface-mounted box, white IP65	
371200	CleanSwitch surface-mounted box, black IP65	
412057	HACCP surface-mounted box, white IP65	
412056	HACCP surface-mounted box, black IP65	